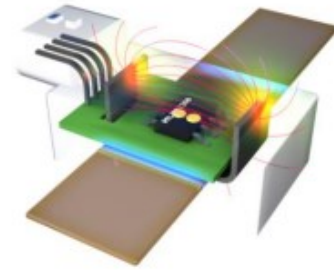


USP

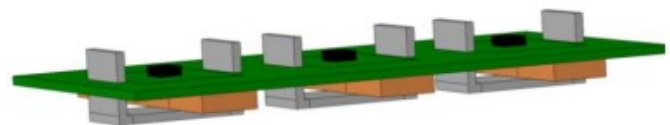
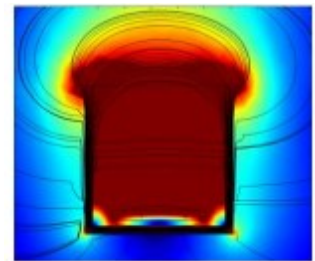
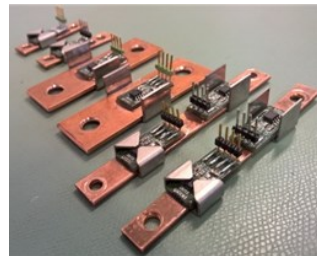
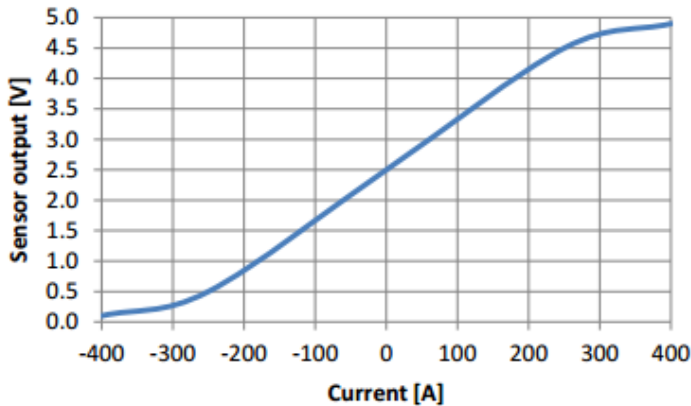
- Planar contactless & coreless current sensor
- Direct integration above/below current conductor
- Several versions covering a broad current range
- High signal-to-noise and very fast response time (2µs)



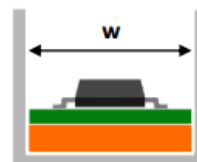
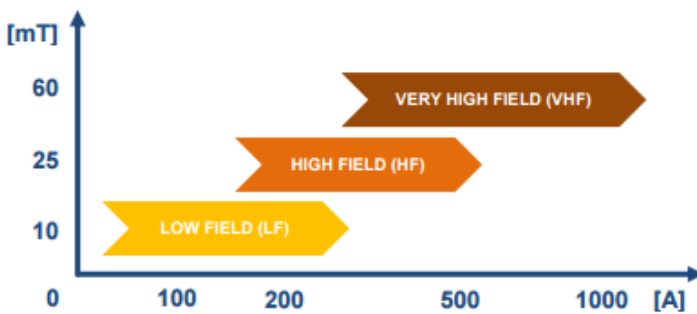
Typical Applications

- Battery Management Systems
- Inverter / Integrated Belt Starter Generator (iBSG)
- DC-DC Converter
- Power Distribution Unit

Typical sensor output (±250A application)



IMC-Hall® versions



Shield width

$$w[\text{mm}] = 1.25 \cdot \frac{I[\text{A}]}{B[\text{mT}]}$$

Magnetic range (B)

- LF version: 10-12mT
- HF version: 25-30mT
- VHF version: 50-60mT

Example (600A, VHF)

Optimal width w=15mm

Disclaimer:

Devices sold by Melexis are covered by the warranty and patent indemnification provisions appearing in its Term of Sale. Melexis makes no warranty, express, statutory, implied, or by description regarding the information set forth herein or regarding the freedom of the described devices from patent infringement. Melexis reserves the right to change specifications and prices at any time and without notice. Therefore, prior to designing this product into a system, it is necessary to check with Melexis for current information. This product is intended for use in normal commercial applications. Applications requiring extended temperature range, unusual environmental requirements, or high reliability applications, such as military, medical life-support or life-sustaining equipment are specifically not recommended without additional processing by Melexis for each application. The information furnished by Melexis is believed to be correct and accurate. However, Melexis shall not be liable to recipient or any third party for any damages, including but not limited to personal injury, property damage, loss of profits, loss of use, interrupt of business or indirect, special incidental or consequential damages, of any kind, in connection with or arising out of the furnishing, performance or use of the technical data herein. No obligation or liability to recipient or any third party shall arise or flow out of Melexis' rendering of technical or other services. © 2010 Melexis NV. All rights reserved.